

Available online at www.sciencedirect.com

SciVerse ScienceDirect

journal homepage: www.elsevier.com/locate/ihj

Case Report

Double perforation of anterior mitral leaflet aneurysm in a patient with mitral and aortic leaflet aneurysms

Prashanth Panduranga ^{a,*}, Mohammed Al-Mukhaini ^b^a Senior Specialist, Department of Cardiology, Royal Hospital, Muscat 111, Oman^b Senior Consultant, Department of Cardiology, Royal Hospital, Muscat 111, Oman

ARTICLE INFO

Article history:

Received 23 June 2013

Accepted 10 August 2013

Available online 3 September 2013

Keywords:

Mitral leaflet aneurysm

Aortic leaflet aneurysm

Perforation

ABSTRACT

Double valve aneurysms in a single patient are a rare occurrence and even rare finding is occurrence of double perforation of anterior mitral leaflet aneurysm. We present an adult patient with bicuspid aortic valve, coarctation of aorta and previous endocarditis presenting late with these rare abnormalities.

Copyright © 2013, Cardiological Society of India. All rights reserved.

A 31-year-old male with past history of infective endocarditis was diagnosed to have bicuspid aortic valve, moderate aortic/mitral regurgitation, and systemic hypertension with post-left subclavian coarctation of aorta in 2009 that was subsequently stented. Follow-up transesophageal echocardiogram showed an anterior mitral leaflet aneurysm with typical rupture of

aneurysm at two exit points, one anteromedial and other posterolateral along with two eccentric jets of severe mitral regurgitation (Fig. 1a and b, arrowheads, Movie 1). The right coronary cusp of aortic valve demonstrated an aneurysm noted in end-diastole (Fig. 2a, arrowheads, Movie 2). There was severe aortic regurgitation with the jet filling the anterior

* Corresponding author.

E-mail address: prashanthp_69@yahoo.co.in (P. Panduranga).

0019-4832/\$ – see front matter Copyright © 2013, Cardiological Society of India. All rights reserved.

<http://dx.doi.org/10.1016/j.ihj.2013.08.006>

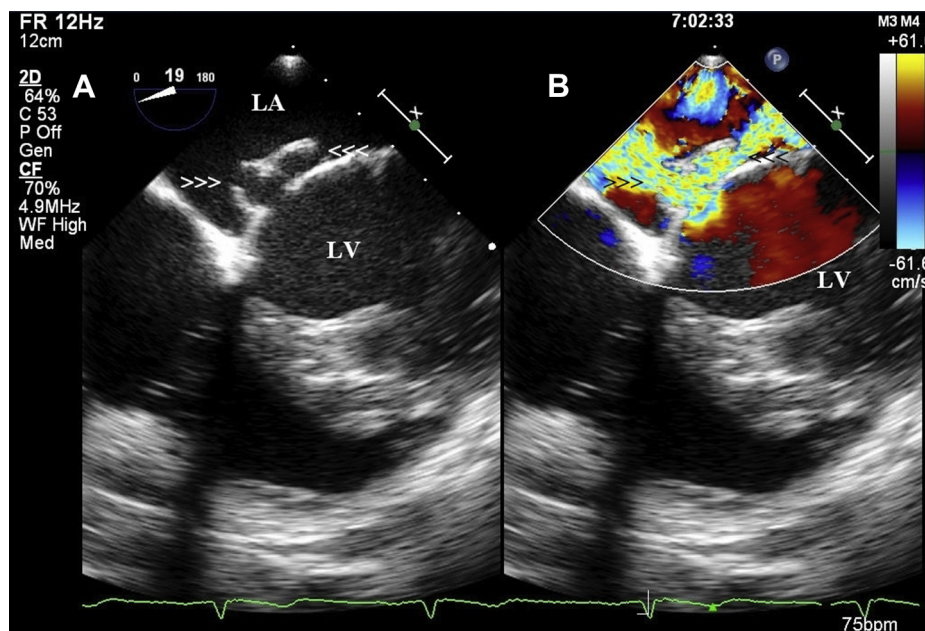


Fig. 1 – (a) Transesophageal echocardiogram image showing anterior mitral leaflet (AML) aneurysm in a patient with previous endocarditis. Note typical rupture on the AML aneurysm at two exit points, one anteromedial and other posterolateral (arrowheads). **(b)** Transesophageal echocardiogram image demonstrating two eccentric regurgitant jets passing through the AML aneurysm perforation towards the left atrium and causing severe mitral regurgitation (arrowheads). LV, left ventricle; LA, left atrium.

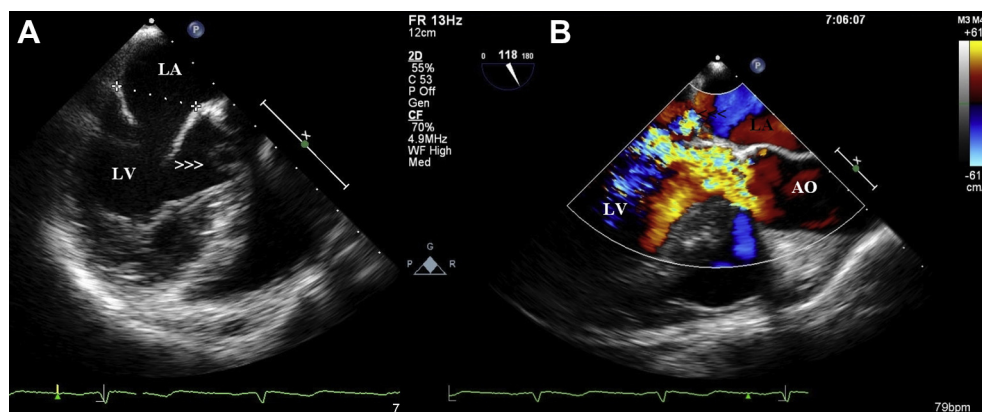


Fig. 2 – (a) Transesophageal echocardiogram image showing right coronary cusp aneurysm in end-diastole (arrowheads). **(b)** Transesophageal echocardiogram image demonstrating severe aortic regurgitation (AR) with the AR jet directed towards the AML, filling in the AML aneurysm during diastole (black arrowheads). LV, left ventricle; LA, left atrium; AO, aorta.

mitral leaflet aneurysm during diastole (Fig. 2b, arrowheads, Movie 3). Patient was offered valve surgery but he declined.

Supplementary video related to this article can be found at <http://dx.doi.org/10.1016/j.ihj.2013.08.006>.

Conflicts of interest

All authors have none to declare.